

Form PTO-449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

20004/83-US

Serial No.

10/538,483

Applicant

Ramaswamy et al.

Filing Date

June 8, 2005

Group Art Unit

Unknown

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*EXAMINER INITIALS		DOCUMENT NUMBER	ISSUE DATE	INVENTOR(S)	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SA	A01	5,550,928	08/27/1996	Lu et al.	—	—	—
SA	A02	5,097,328	03/17/1992	Boyette	—	—	—

FOREIGN PATENT DOCUMENTS

*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
	B01							

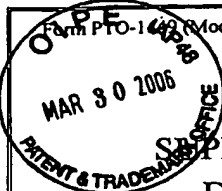
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

SA	C01	International Search Report corresponding to International Application No. PCT/US02/39619, March 11, 2003.
SA	C02	Written Opinion of the International Preliminary Examining Authority corresponding to International Application No. PCT/US02/39619, April 20, 2004.
SA	C03	Written Opinion of the International Preliminary Examining Authority corresponding to International Application No. PCT/US02/39619, August 22, 2003.
SA	C04	International Preliminary Examination Report corresponding to International Application No. PCT/US02/39619, June 1, 2004.

EXAMINER /Seyed Azarian/

DATE CONSIDERED 07/13/2006

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	Form PTO-162 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 20004/83-US	Serial No. 10/538,483	
	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>					Applicant Ramaswamy et al.	
						Filing Date June 8, 2005	Group Art Unit 2625

U.S. PATENT DOCUMENTS							
*EXAMINER INITIALS		DOCUMENT NUMBER	ISSUE DATE	INVENTOR(S)	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SA	A01	4,644,509	02/17/1987	Kiewit et al.	—	—	—
SA	A02	5,031,228	07/09/1991	Lu	—	—	—

FOREIGN PATENT DOCUMENTS							
*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation Yes No
SA	B01	WO 99/27668	06/03/1999	PCT	—	—	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
	C01	
	C02	

EXAMINER /Seyed Azarian/	DATE CONSIDERED 07/13/2006
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10538483
Filing Date	2005-06-08
First Named Inventor	Arun Ramaswamy
Art Unit	2624
Examiner Name	Seyed H. Azarian
Attorney Docket Number	20004/83-US




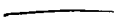






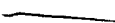
U.S. PATENTS

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
SA	1	4468807		1984-08-28	Moulton	—
↓	2	4611347		1986-09-09	Netravali et al.	—
↓	3	4843631		1989-06-27	Steinpichler et al.	—
↓	4	4858000		1989-08-15	Lu	—
↓	5	4993049		1991-02-12	Cupps	—
↓	6	5063603		1991-11-05	Burt	—
↓	7	5067160		1991-11-19	Omata et al.	—
↓	8	5099324		1992-03-24	Abe	—

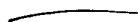
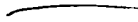

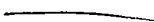
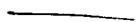
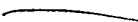
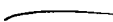

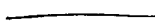


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SA	9	5121201		1992-06-09	Seki	
SA	10	5164992		1992-11-17	Turk et al.	
SA	11	5229764		1993-07-20	Matchett et al.	
SA	12	5412738		1995-05-02	Brunelli et al.	
SA	13	5629752		1997-05-13	Kinjo	
SA	14	5675663		1997-10-07	Koerner et al.	
SA	15	5715325		1998-02-03	Bang et al.	
SA	16	5719951		1998-02-17	Shackleton et al.	
SA	17	5771307		1998-06-23	Lu et al.	
SA	18	5781650		1998-07-14	Lobo et al.	
SA	19	5801763		1998-09-01	Suzuki	

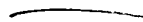
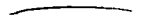

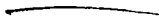
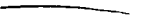
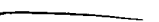



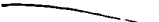
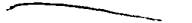
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SA	20	5805745		1998-09-08	Graf	
SA	21	5835616		2006-11-10	Lobo et al.	
SA	22	5850470		1998-12-15	Kung et al.	
SA	23	5859921		1999-01-12	Suzuki	
SA	24	5864630		1999-01-26	Cosatto et al.	
SA	25	5878156		1999-03-02	Okumura	
SA	26	5892837		1999-04-06	Luo et al.	
SA	27	5901244		1999-05-04	Souma et al.	
SA	28	5920641		1999-07-06	Ueberreiter et al.	
SA	29	5963670		1999-10-05	Lipson et al.	
SA	30	5978507		1999-11-02	Shackleton et al.	

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SA	31	5987154		1999-11-16	Gibbon et al.	
SA	32	6055323		2000-04-25	Okumura	
SA	33	6332033		2001-12-18	Qian	
SA	34	6332038		2001-12-18	Funayama et al.	
SA	35	6363159		2002-03-26	Rhoads	
SA	36	6940545		2005-09-06	Ray et al.	
SA	37	6944319		2005-09-13	Huang et al.	
SA	38	3805238		1974-04-16	Rothfjell	
SA	39	5384716		1995-01-24	Araki et al.	
SA	40	4849737		1989-07-18	Kirihata et al.	
SA	41	5793409		1998-08-11	Tetsumura	

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SA	42	4769697		1988-09-06	Gilley et al.	
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SA	1	20030033600		2003-02-13	Cliff et al.	
SA	2	20050198661		2005-09-08	Collins et al.	

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SA	1	WO2004/054255	WO		2004-06-24	Ramaswamy et al.		<input type="checkbox"/>

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SA	1	Duda and Hart, "Bayes Decision Theory", Pattern Classification & Scene Analysis, pp. 10-43, Wiley Publishers, 1973.	<input type="checkbox"/>
SA	2	International Preliminary Examination Report corresponding to International Application No. PCT/US2002/039625, April 27, 2004, 4 pages.	<input type="checkbox"/>

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SA	3	Qing et al. "Histogram Based Fuzzy C - Mean Algorithm For Image Segmentation," Pattern Recognition, 1992. Vol. III. Conference C: Image, Speech and Signal Analysis, Proceedings., 11th IAPR International Conference, August 30 - September 2, 1992.	<input type="checkbox"/>
SA	4	Wolfram, Stephen, "Mathematica A System for Doing Mathematics by Computer", 2d Ed., Addison-Wesley Publishing Company, Inc., 1991, pp. 665-666.	<input type="checkbox"/>
SA	5	"Convex Hull", http://www.cse.unsw.edu.au/~lambert/java/3d/ConvexHull.html , downloaded November 6, 2002.	<input type="checkbox"/>
SA	6	"What is convex hull? What is the convex hull problem?," http://www.ifor.math.ethz.ch/~fukuda/polyfaq/node13.html , downloaded November 6, 2002.	<input type="checkbox"/>
SA	7	"1.6.2 Convex Hull," http://www.cs.sunysb.edu/~algorithm/files/convex-hull.shtml , downloaded November 6, 2002.	<input type="checkbox"/>
SA	8	Ramaswamy et al., "Detecting a composition of an audience," U.S. Patent Application Serial No. 10/538,692, filed November 12, 2002.	<input type="checkbox"/>
SA	9	International Search Report corresponding to International Application No. PCT/US2002/039625, June 20, 2003, 5 pages.	<input type="checkbox"/>

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